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TO : The Files

DATE: 28 June 1956

FROM :

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SUBJECT: Trip Report - From R&D Laboratory to Quantico, Virginia

1. The SARAH Beacon D/F equipment was bench tested in the R&D Laboratory and was returned to Lt. Col. Wilcox Marine Air Station, Squadron HMX-1, Quantico, Virginia, 28 June 1956.
2. Field testing of the SARAH equipment at the Quantico Marine Air Station was interrupted due to equipment failure.
3. The miniature SARAH receiver malfunctioned due to loss of vertical trace. Also, the receiver tuning shaft coupling to the external dial knob is damaged to the extent that the receiver does not tune properly.
4. The inverter being used to supply the input voltages to the SARAH power supply was unstable and the inverter output voltage fluctuated more than $\pm 10\%$ from the required nominal voltage input to the SARAH power supply which is 80 V AC or 115 V AC 400-1600 cycles dependent upon the input taps used. The inverter regulator was not checked due to lack of time.
5. It was learned from the enlisted personnel concerned with the installation of the SARAH equipment in the aircraft that during the initial installing of the miniaturized SARAH Beacon equipment the output power of the inverter was fed into the SARAH power supply through the wrong series of taps causing fuse blowing.
6. A recommendation is here made to provide Lt. Col. Wilcox with another miniaturized SARAH receiver and power supply to facilitate completion of the SARAH tests. If it is desirable, workload-wise, the damaged receiver should be sent to the R&D Laboratory for receiver repair.
7. Further consideration should be given to determining whether the inverter is functioning properly.
8. In conclusion, the cooperation of Lt. Col. Percy, Lt. Col. Wilcox, and their unit in collaborating with the R&D Laboratory is to be noted and sincerely appreciated.

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